



STIC Search Report

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TO: Deborah Lambkin
Location: REM-5C09&5C18
Art Unit: 1626
December 21, 2005

Case Serial Number: 10/719465

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

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(FILE 'REGISTRY' ENTERED AT 11:28:13 ON 21 DEC 2005)

L3 STR
L4 50 SEA SSS SAM L3
L5 27407 SEA SSS FUL L3
L6 STR
L7 55 SEA SUB=L5 SSS FUL L6

FILE 'HCAPLUS' ENTERED AT 12:00:59 ON 21 DEC 2005

L8 6 SEA ABB=ON PLU=ON L7
D STAT QUE
D IBIB ABS HITSTR L8 1-6

FILE HCAPLUS

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FILE COVERS 1907 - 21 Dec 2005 VOL 143 ISS 26
FILE LAST UPDATED: 20 Dec 2005 (20051220/ED)

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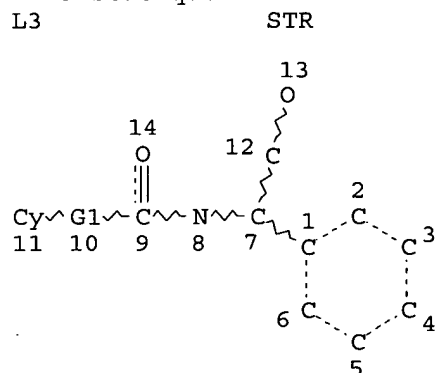
FILE COVERS 1907 - 21 Dec 2005 VOL 143 ISS 26
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

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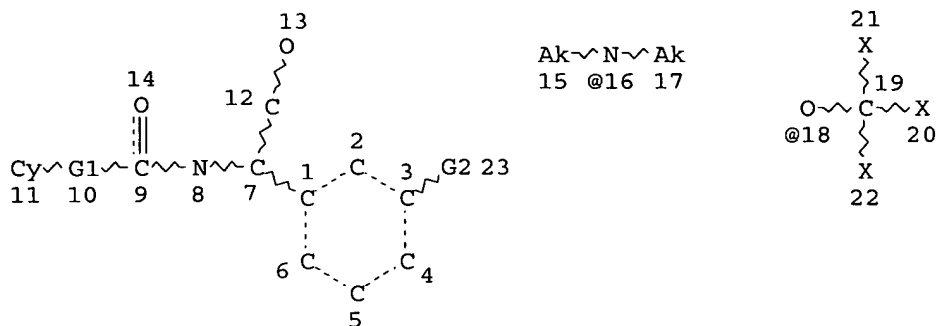
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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 L6 STR



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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
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L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:470948 HCAPLUS
 DOCUMENT NUMBER: 141:38448
 TITLE: Preparation of arylcyclopropylcarboxylic amides as
 potassium channel openers
 INVENTOR(S): Wu, Yong-jin; Sun, Li-qiang; L'heureux, Alexandre
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004047738	A2	20040610	WO 2003-US37305	20031121
WO 2004047738	A3	20041007		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				

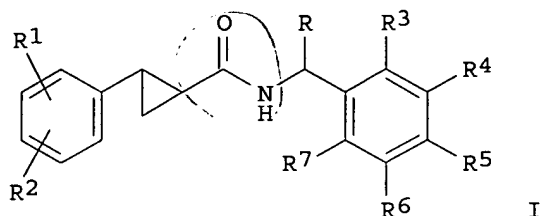
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 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004110754 A1 20040610 US 2003-719184 20031121
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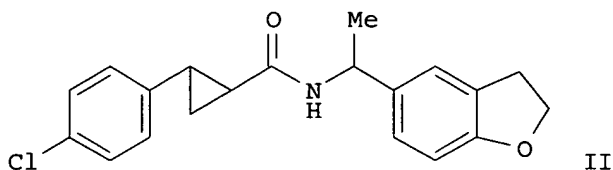
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2002-428337P P 20021122
 WO 2003-US37305 W 20031121

OTHER SOURCE(S): MARPAT 141:38448
 GI



564 / 182
 564 / 817



564 / 468
 564 / 471

AB The title compds. [I; R = alkyl, CF₃, hydroxymethyl; R₁, R₂ = H, alkyl, halo, morpholin-4-yl; R₄ = (un)substituted morpholin-4-yl, pyridinyl, pyrimidinyl, etc.; R₅ = H, F; or R₄ and R₅ taken together = CH:CHCH:CH, CH₂CH₂O; R₃, R₆, R₇ = H, F] which are openers or activators of KCNQ potassium channels (biol. data given), were prepared. Thus, amidation of 1-(2,3-dihydrobenzofuran-5-yl)ethylamine with 2-(4-chlorophenyl)cyclopropanecarboxylic acid afforded the amide II. The present invention also provides pharmaceutical compns. comprising the compds. I, and the method of treatment of disorders sensitive to KCNQ potassium channel opening activity such as migraine or a migraine attack, bipolar disorders, epilepsy, acute and chronic pain and anxiety.

IT 701913-77-1P 701913-78-2P 701913-79-3P
 701913-80-6P 701913-81-7P 701913-82-8P
 701913-83-9P 701913-84-0P

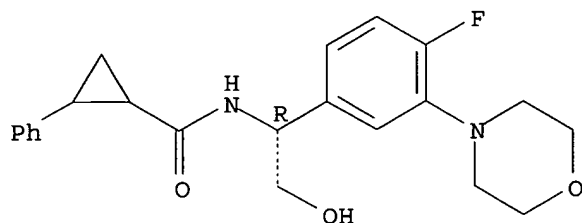
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylcyclopropanecarboxamides as potassium channel openers)

RN 701913-77-1 HCAPLUS

CN Cyclopropanecarboxamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-2-phenyl- (9CI) (CA INDEX NAME)

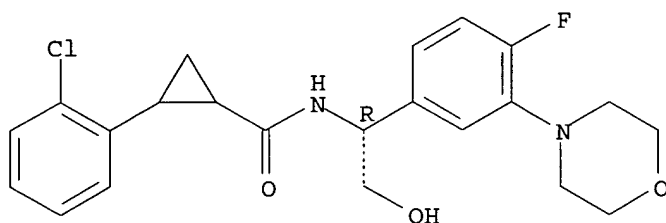
Absolute stereochemistry.



RN 701913-78-2 HCAPLUS

CN Cyclopropanecarboxamide, 2-(2-chlorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]- (9CI) (CA INDEX NAME)

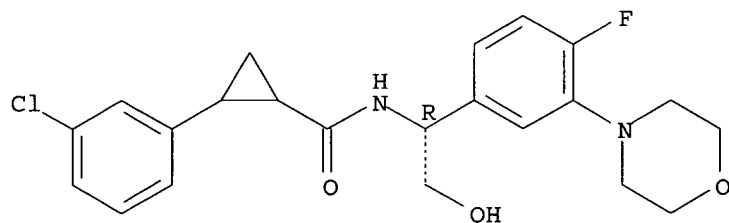
Absolute stereochemistry.



RN 701913-79-3 HCAPLUS

CN Cyclopropanecarboxamide, 2-(3-chlorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]- (9CI) (CA INDEX NAME)

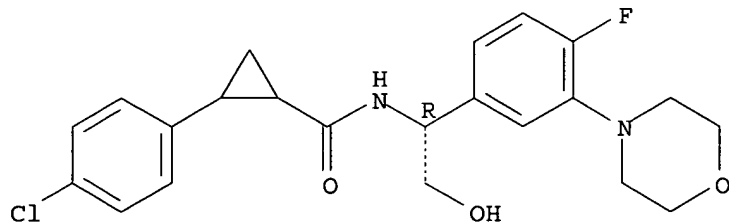
Absolute stereochemistry.



RN 701913-80-6 HCAPLUS

CN Cyclopropanecarboxamide, 2-(4-chlorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]- (9CI) (CA INDEX NAME)

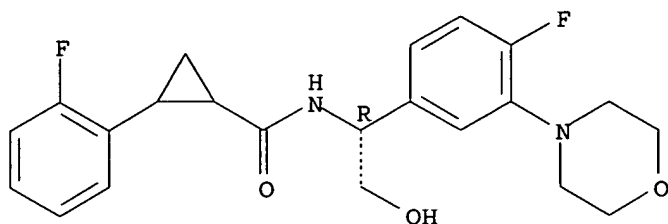
Absolute stereochemistry.



RN 701913-81-7 HCAPLUS

CN Cyclopropanecarboxamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-2-(2-fluorophenyl)- (9CI) (CA INDEX NAME)

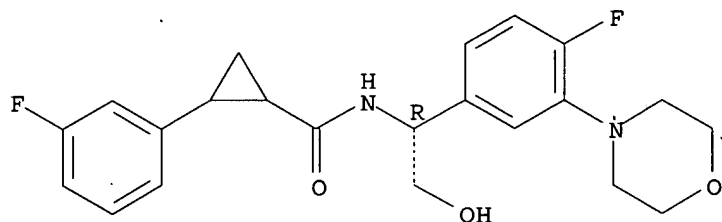
Absolute stereochemistry.



RN 701913-82-8 HCAPLUS

CN Cyclopropanecarboxamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-2-(3-fluorophenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

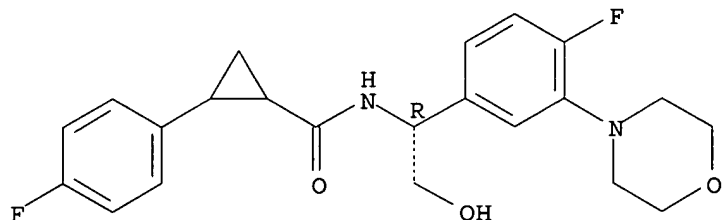


544/169
514/238.2

RN 701913-83-9 HCAPLUS

CN Cyclopropanecarboxamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-2-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

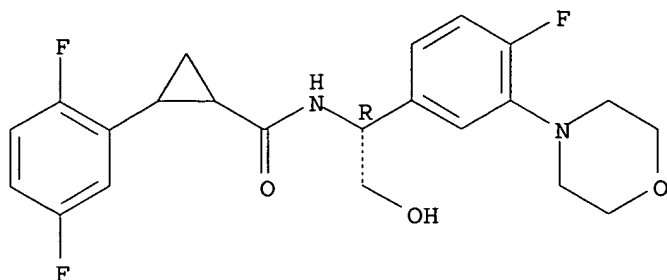
Absolute stereochemistry.



RN 701913-84-0 HCAPLUS

CN Cyclopropanecarboxamide, 2-(2,5-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:467693 HCAPLUS

DOCUMENT NUMBER: 141:38621

TITLE: Preparation of N-(1-aryl-2-hydroxyethyl) amides as potassium channel openers

INVENTOR(S): Wu, Yong-Jin; Sun, Li-Qiang; He, Huan; L'Heureux, Alexandre

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

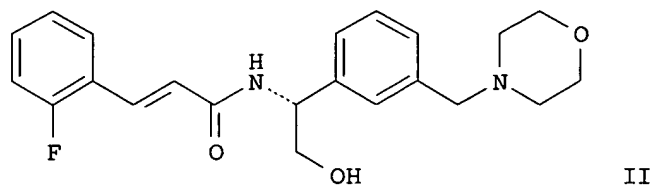
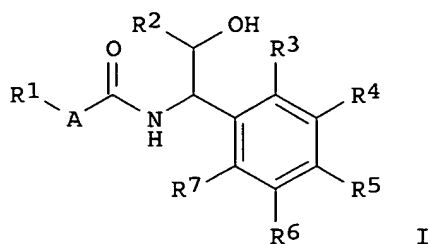
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004047743	A2	20040610	WO 2003-US37348	20031121
WO 2004047743	A3	20040729		
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004122007	A1	20040624	US 2003-719465	20031121
EP 1581510	A2	20051005	EP 2003-789925	20031121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2002-428338P	P 20021122
			WO 2003-US37348	W 20031121

OTHER SOURCE(S): MARPAT 141:38621

GI



AB The title compds. [I; R1 = pyridinyl, 3-quinolinyl, 2-thienyl, furanyl, cycloalkyl, Ph; A = CH:CH, (CH2)n; R2 = H, hydroxymethyl; n = 0-2; R4 = dialkylamino, OCF3, morpholin-4-yl, etc.; R5 = H, F; or R4 and R5 taken together = (un)substituted CH:CHCH:CH; R3, R6, R7 = H, F] which are openers or activators of KCNQ potassium channels (biol. data given), were prepared. Thus, amidation of (R)-2-amino-2-[3-(morpholin-4-ylmethyl)phenyl]ethanol hydrochloride (preparation given) with 2-fluorocinnamic acid afforded (R)-II. The present invention also provides pharmaceutical compns. comprising compds. I and the method of treatment of disorders sensitive to KCNQ potassium channel opening activity such as migraine or a migraine attack, bipolar disorders, epilepsy, acute and chronic pain and anxiety.

IT 701942-88-3P 701942-89-4P 701942-90-7P
 701942-91-8P 701942-92-9P 701942-93-0P
 701942-94-1P 701942-95-2P 701942-96-3P
 701942-97-4P 701942-98-5P 701942-99-6P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

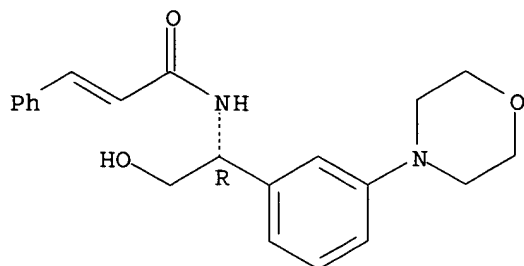
(preparation of N-(1-aryl-2-hydroxyethyl) amides as potassium channel openers)

RN 701942-88-3 HCAPLUS

CN 2-Propenamide, N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]-3-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

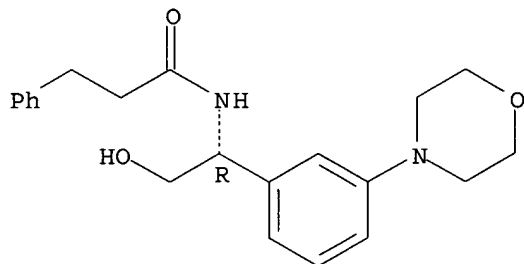
Double bond geometry unknown.



RN 701942-89-4 HCAPLUS

CN Benzenepropanamide, N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

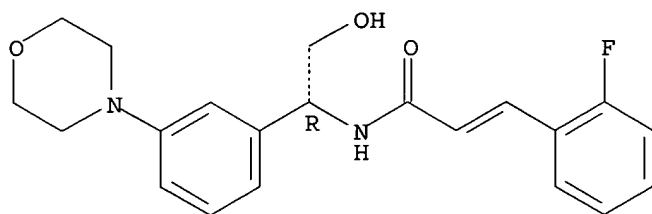


RN 701942-90-7 HCAPLUS

CN 2-Propenamide, 3-(2-fluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

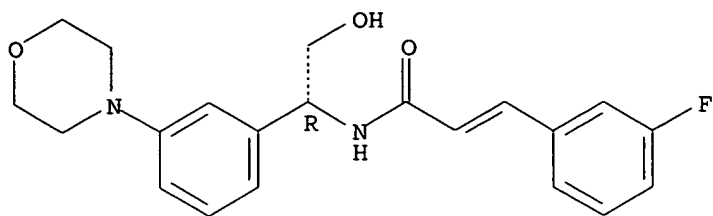


RN 701942-91-8 HCAPLUS

CN 2-Propenamide, 3-(3-fluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

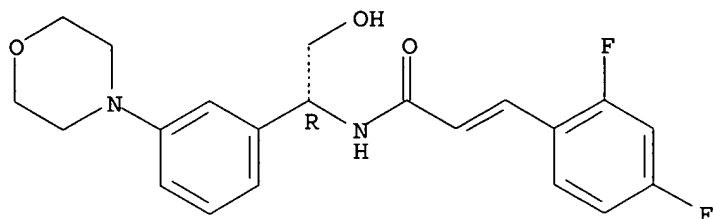
Double bond geometry unknown.



RN 701942-92-9 HCAPLUS

CN 2-Propenamide, 3-(2,4-difluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

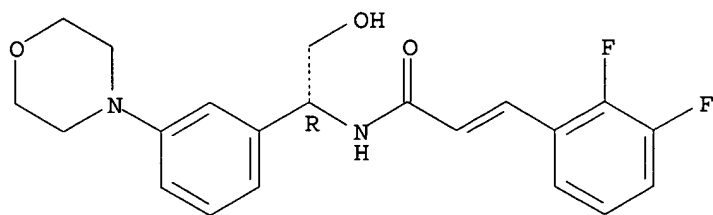
Absolute stereochemistry.
Double bond geometry unknown.



RN 701942-93-0 HCAPLUS

CN 2-Propenamide, 3-(2,3-difluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

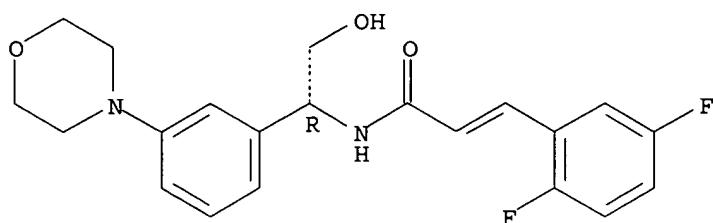
Absolute stereochemistry.
Double bond geometry unknown.



RN 701942-94-1 HCAPLUS

CN 2-Propenamide, 3-(2,5-difluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

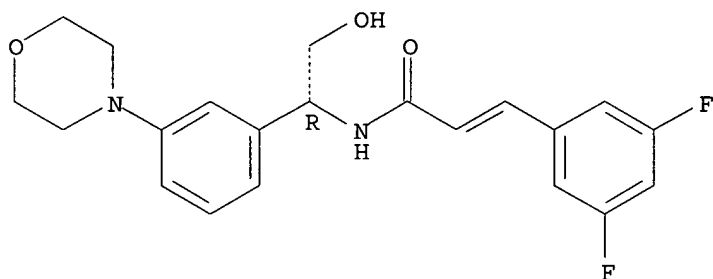
Absolute stereochemistry.
Double bond geometry unknown.



RN 701942-95-2 HCAPLUS

CN 2-Propenamide, 3-(3,5-difluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

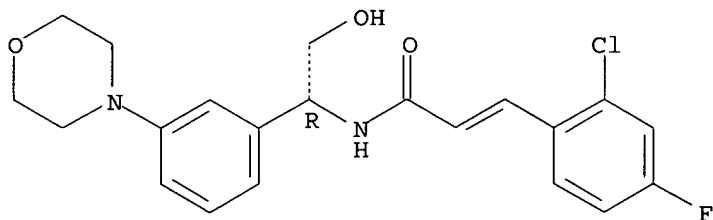
Absolute stereochemistry.
Double bond geometry unknown.



RN 701942-96-3 HCAPLUS

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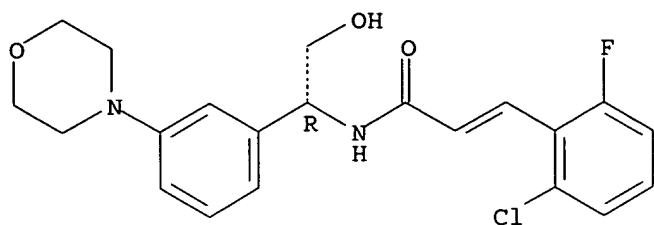
Absolute stereochemistry.
Double bond geometry unknown.



RN 701942-97-4 HCAPLUS

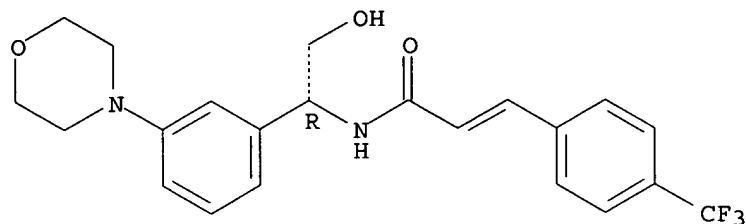
CN 2-Propenamide, 3-(2-chloro-6-fluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



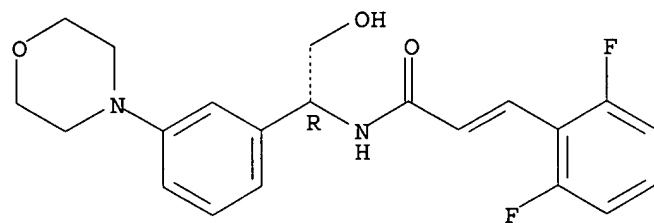
RN 701942-98-5 HCAPLUS
 CN 2-Propenamide, N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]-3-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



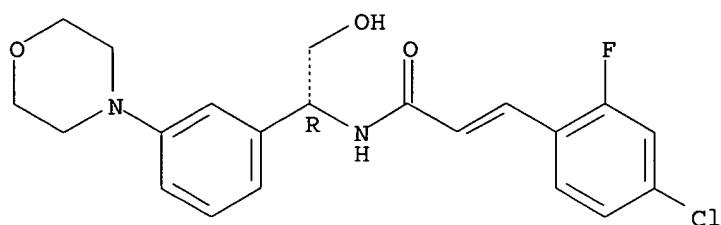
RN 701942-99-6 HCAPLUS
 CN 2-Propenamide, 3-(2,6-difluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 701943-00-2 HCAPLUS
 CN 2-Propenamide, 3-(4-chloro-2-fluorophenyl)-N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

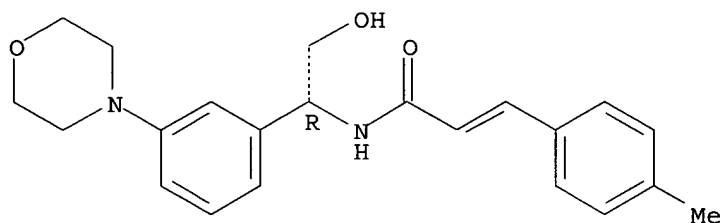
Absolute stereochemistry.
 Double bond geometry unknown.



RN 701943-01-3 HCAPLUS

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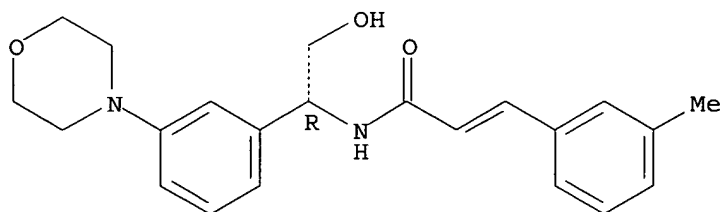
Absolute stereochemistry.
Double bond geometry unknown.



RN 701943-02-4 HCAPLUS

CN 2-Propenamide, N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]-3-(3-methylphenyl)- (9CI) (CA INDEX NAME)

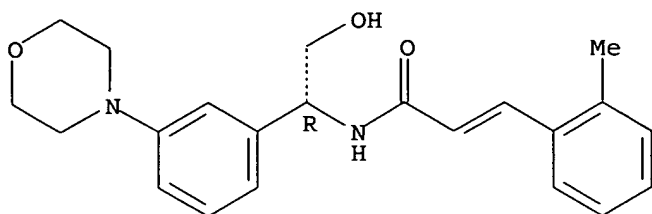
Absolute stereochemistry.
Double bond geometry unknown.



RN 701943-03-5 HCAPLUS

CN 2-Propenamide, N-[(1R)-2-hydroxy-1-[3-(4-morpholinyl)phenyl]ethyl]-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)

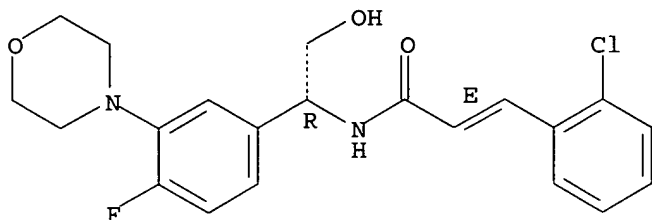
Absolute stereochemistry.
Double bond geometry unknown.



RN 701943-04-6 HCAPLUS

CN 2-Propenamide, 3-(2-chlorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)-(9CI) (CA INDEX NAME)

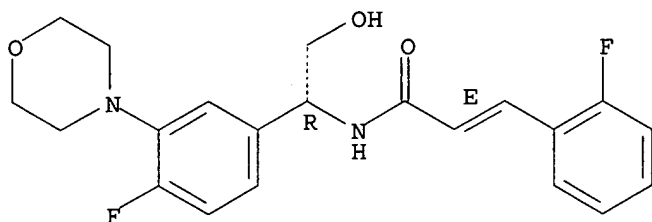
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-05-7 HCAPLUS

CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-(2-fluorophenyl)-, (2E)-(9CI) (CA INDEX NAME)

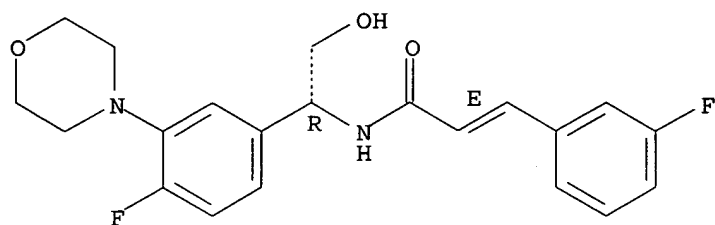
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-06-8 HCAPLUS

CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-(3-fluorophenyl)-, (2E)-(9CI) (CA INDEX NAME)

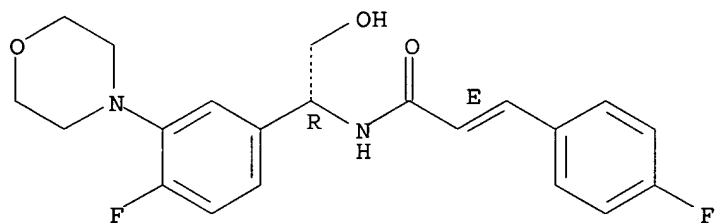
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-07-9 HCAPLUS

CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-(4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

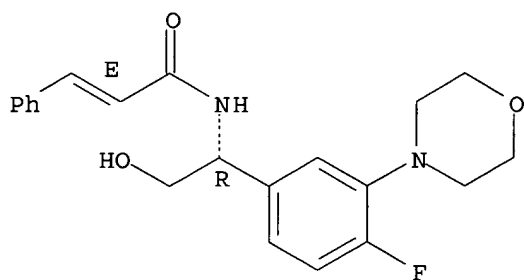
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-08-0 HCAPLUS

CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

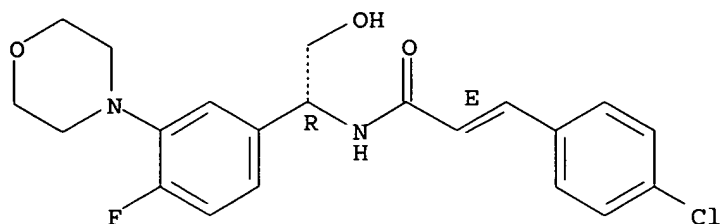
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-09-1 HCAPLUS

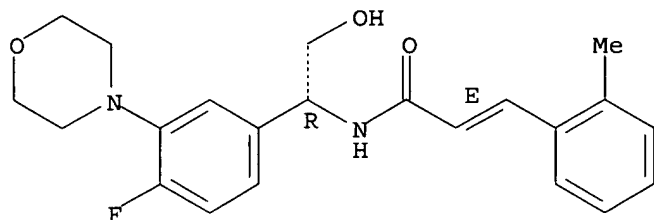
CN 2-Propenamide, 3-(4-chlorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



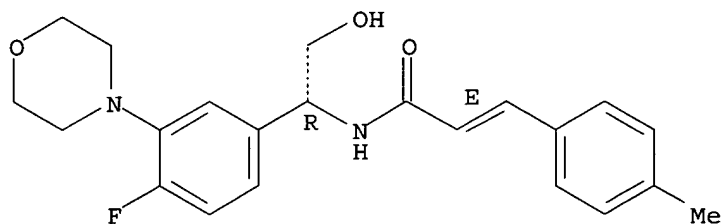
RN 701943-10-4 HCAPLUS
 CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-(2-methylphenyl)-, (2E)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



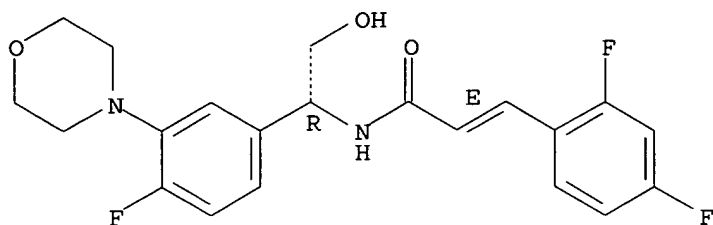
RN 701943-11-5 HCAPLUS
 CN 2-Propenamide, N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-3-(4-methylphenyl)-, (2E)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 701943-12-6 HCAPLUS
 CN 2-Propenamide, 3-(2,4-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)-(9CI) (CA INDEX NAME)

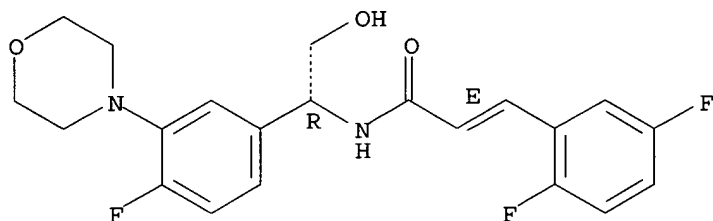
Absolute stereochemistry.
 Double bond geometry as shown.



RN 701943-13-7 HCAPLUS

CN 2-Propenamide, 3-(2,5-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

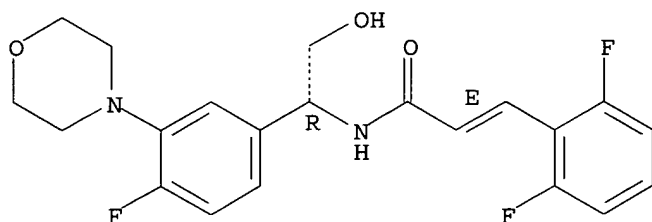
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-14-8 HCAPLUS

CN 2-Propenamide, 3-(2,6-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

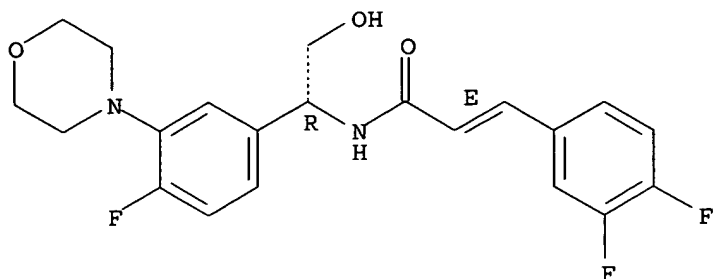
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-15-9 HCAPLUS

CN 2-Propenamide, 3-(3,4-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

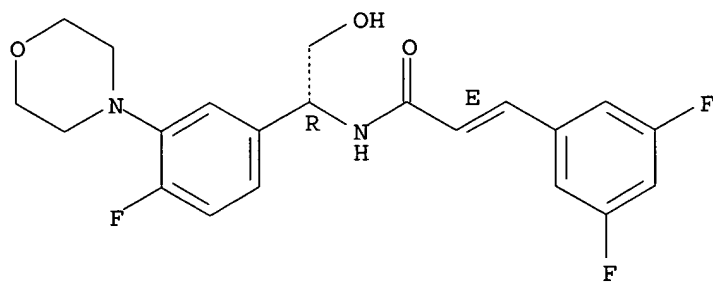
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-16-0 HCAPLUS

CN 2-Propenamide, 3-(3,5-difluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

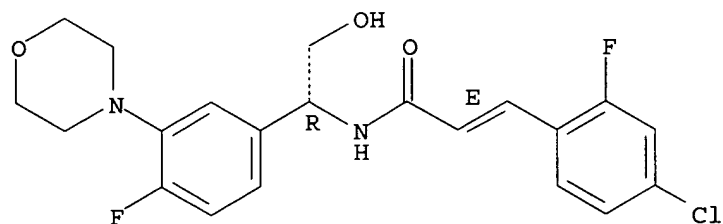
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-17-1 HCAPLUS

CN 2-Propenamide, 3-(4-chloro-2-fluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

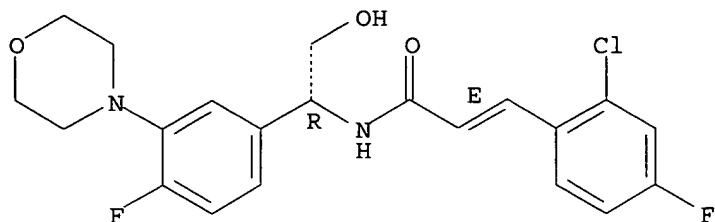
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-18-2 HCAPLUS

CN 2-Propenamide, 3-(2-chloro-4-fluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)- (9CI) (CA INDEX NAME)

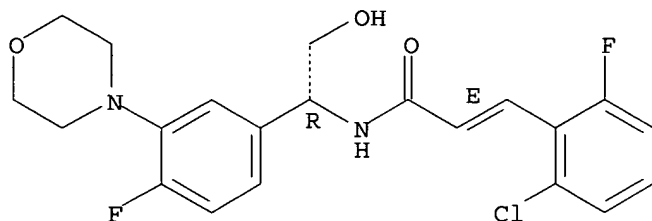
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-19-3 HCAPLUS

CN 2-Propenamide, 3-(2-chloro-6-fluorophenyl)-N-[(1R)-1-[4-fluoro-3-(4-morpholinyl)phenyl]-2-hydroxyethyl]-, (2E)-(9CI) (CA INDEX NAME)

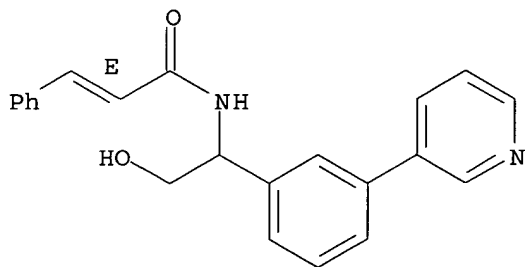
Absolute stereochemistry.
Double bond geometry as shown.



RN 701943-91-1 HCAPLUS

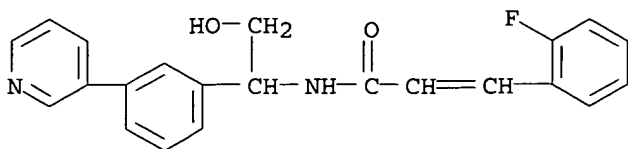
CN 2-Propenamide, N-[2-hydroxy-1-[3-(3-pyridinyl)phenyl]ethyl]-3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 701943-92-2 HCAPLUS

CN 2-Propenamide, 3-(2-fluorophenyl)-N-[2-hydroxy-1-[3-(3-pyridinyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)



. ACCESSION NUMBER: 1999:629455 HCAPLUS
 DOCUMENT NUMBER: 131:351666
 TITLE: Two Syntheses of the 16- and 17-Membered DEF Ring Systems of Chloropeptin and Complestatin
 AUTHOR(S): Elder, Amy M.; Rich, Daniel H.
 CORPORATE SOURCE: Department of Chemistry and School of Pharmacy, University of Wisconsin, Madison, WI, 53706, USA
 SOURCE: Organic Letters (1999), 1(9), 1443-1446
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 131:351666

AB Two syntheses of a model system of the DEF ring system of complestatin and chloropeptin are described. The key step in both of these syntheses involves the formation of the biaryl linkage using a palladium-catalyzed Suzuki cross-coupling reaction and a catalytic enantioselective ene reaction to form the 6-bromo-D-tryptophan. Addnl., ring contraction of the 17-membered DEF ring system of complestatin generates the 16-membered DEF ring system of chloropeptin in a biomimetic fashion.

IT 250608-85-6P 250608-86-7P 250608-87-8P

250608-88-9P 250608-89-0P

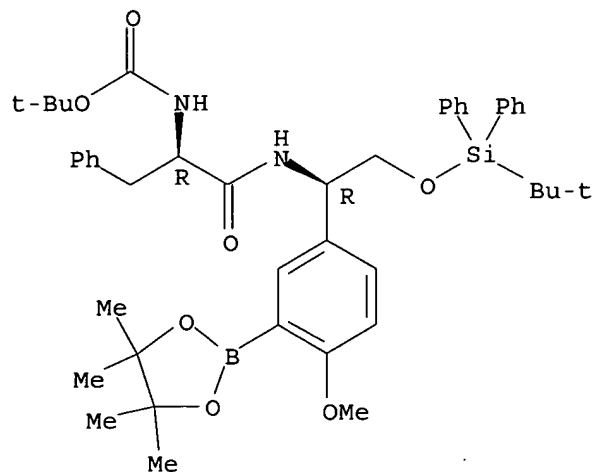
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of in the synthesis of the 16- and 17-membered DEF ring systems of chloropeptin and complestatin)

RN 250608-85-6 HCAPLUS

CN 8-Oxa-2,5-diaza-9-silaundecanoic acid, 6-[4-methoxy-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]-10,10-dimethyl-4-oxo-9,9-diphenyl-3-(phenylmethyl)-, 1,1-dimethylethyl ester, (3R,6R)- (9CI) (CA INDEX NAME)

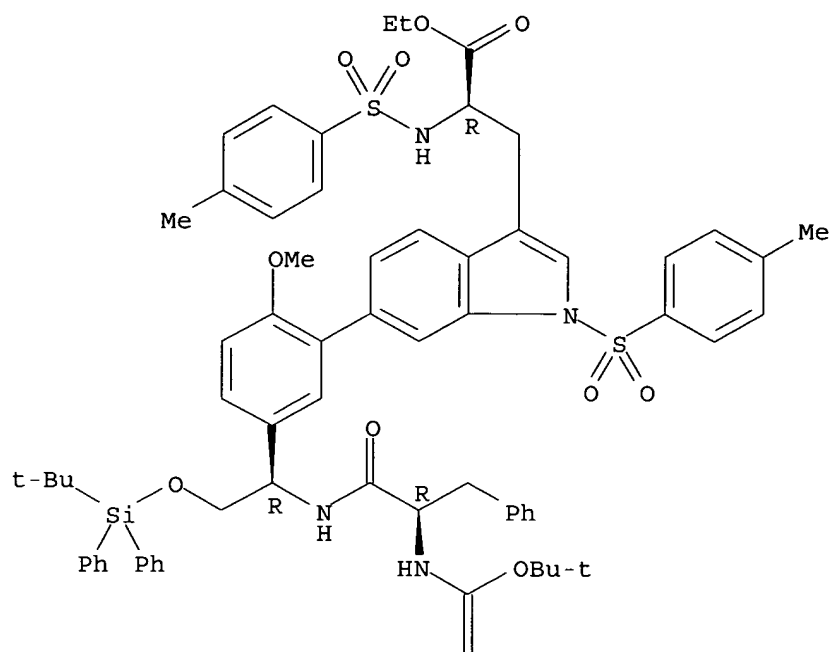
Absolute stereochemistry.



RN 250608-86-7 HCAPLUS

CN D-Tryptophan, 6-[5-[(1R)-1-[[[(2R)-2-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]amino]-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethyl]-2-methoxyphenyl]-N,1-bis[(4-methylphenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

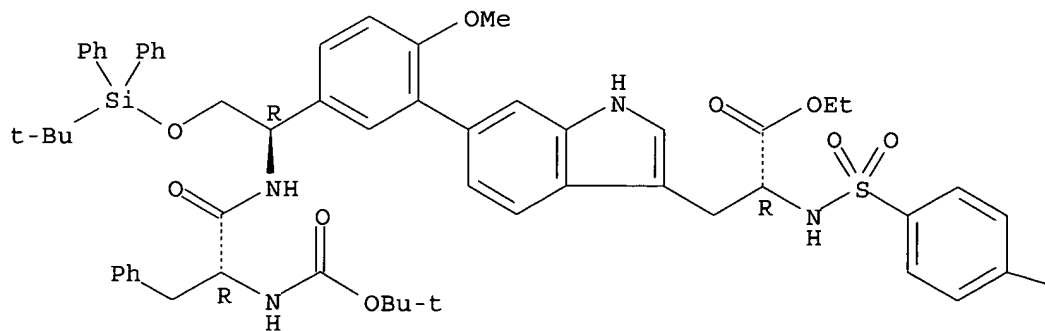
Absolute stereochemistry.



RN 250608-87-8 HCAPLUS

CN D-Tryptophan, 6-[5-[(1R)-1-[[[(2R)-2-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]amino]-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethyl]-2-methoxyphenyl]-N-[(4-methylphenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



PAGE 1-B

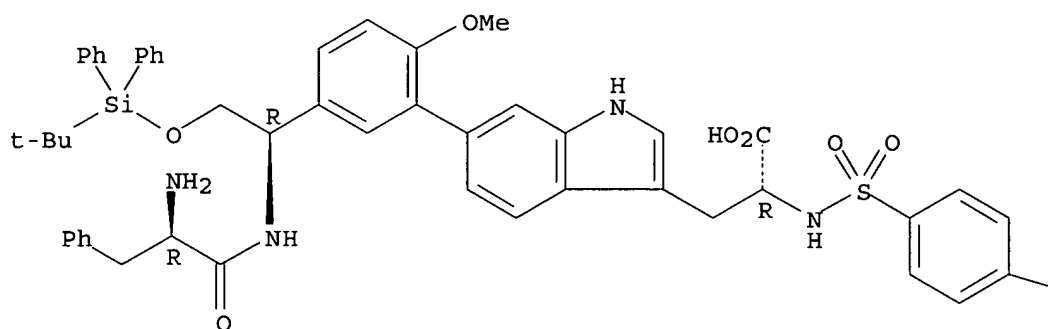
Me

RN 250608-88-9 HCAPLUS

CN D-Tryptophan, 6-[5-[(1R)-1-[[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]-2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethyl]-2-methoxyphenyl]-N-[(4-methylphenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

PAGE 1-B

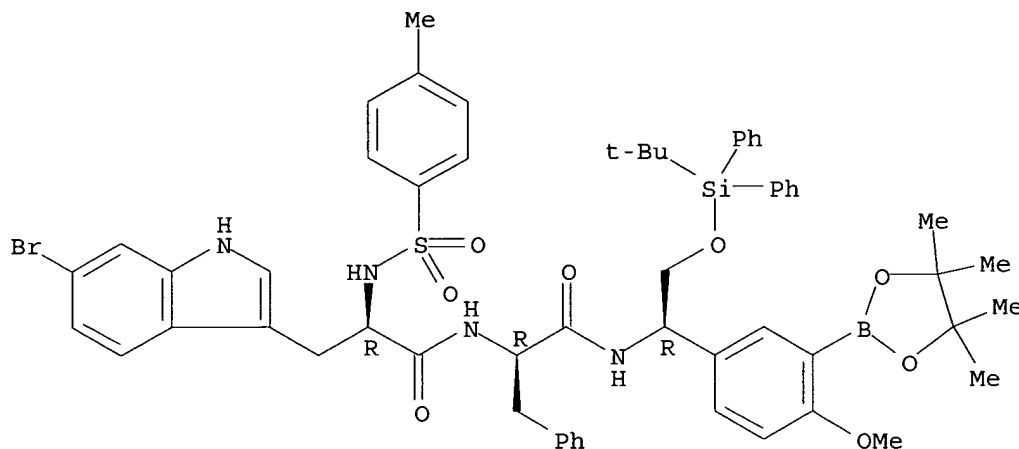
Me

RN 250608-89-0 HCAPLUS

CN D-Phenylalaninamide, 6-bromo-N-[(4-methylphenyl)sulfonyl]-D-tryptophyl-N-

[(1R)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1-[4-methoxy-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 250608-77-6

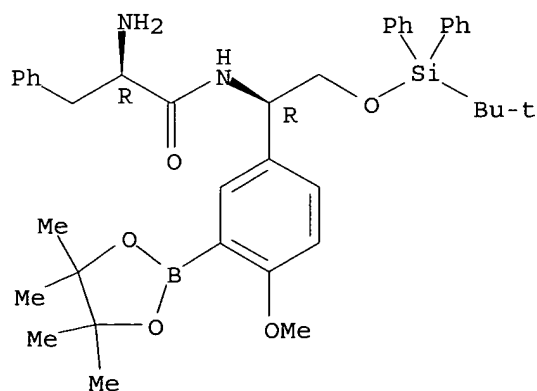
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of in the synthesis of the 16- and 17-membered DEF ring systems of chloropeptin and complestatin)

RN 250608-77-6 HCAPLUS

CN Benzenepropanamide, α -amino-N-[(1R)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1-[4-methoxy-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]ethyl]-, monohydrochloride, (α R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

REFERENCE COUNT:

26

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:238389 HCAPLUS

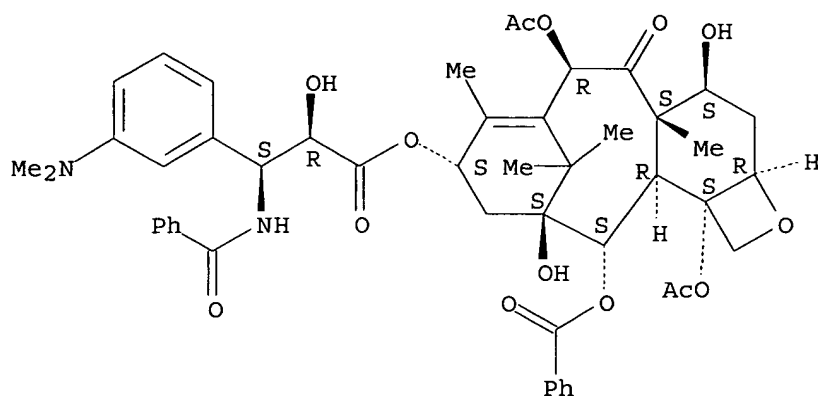
DOCUMENT NUMBER: 126:287587
 TITLE: Probing the Environment of Tubulin-Bound Paclitaxel Using Fluorescent Paclitaxel Analogs
 AUTHOR(S): Sengupta, Suparna; Boge, Thomas C.; Liu, Yanbin; Hepperle, Michael; Georg, Gunda I.; Himes, Richard H.
 CORPORATE SOURCE: Departments of Biochemistry and Medicinal Chemistry, University of Kansas, Lawrence, KS, 66045, USA
 SOURCE: Biochemistry (1997), 36(17), 5179-5184
 CODEN: BICHAW; ISSN: 0006-2960
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB To determine the environment of different positions in the paclitaxel mol. when bound to tubulin, we have synthesized six fluorescent analogs in which a (dimethylamino)benzoyl group has been introduced into the 7- and 10-positions, and the benzoyl groups at the 2- and N- as well as the 3'-Ph ring have been modified with dimethylamino functions. In a tubulin assembly assay, the N-m- and N-p-(dimethylamino)benzoyl derivs. had activities comparable to the activity of paclitaxel. The 2-, 3'-, and 10-analogs had slightly reduced activity, and the 7-derivative was about 5% as active as paclitaxel. On the basis of the results of studies of the effect of solvents on the fluorescence emission spectra, it is proposed that the unbound analogs form hydrogen bonds with protic solvents. But the 7- and 10-substituted analogs appear to be more affected by protic solvents than the other analogs. Previously, we studied the binding of the N-meta derivative to tubulin and microtubules [Sengupta, S., et al. (1995) Biochem. 34, 11889-11894]. In this study, we extended the studies to include the 2-, 7-, and 10-derivs. Similar to the N-substituted analog, binding of the 2-derivative to tubulin was accompanied by a large blue shift, whereas a very small shift occurred when the 7- and 10-substituted derivs. bound. The 2- and N-substituted analogs bind to microtubules with an increase in fluorescence intensity over that which was observed with tubulin, whereas binding of the 7- and 10-substituted analogs was accompanied by a large quenching in fluorescence. This quenching may be due to the presence of charged residues in the protein near the 7- and 10-(dimethylamino)benzoyl groups or to π stacking of the groups with an aromatic side chain. The presence of paclitaxel with microtubules prevented the fluorescence increase of the 2- and N-derivs. and quenching of the 7- and 10-derivs. The difference in behavior of the fluorescent analogs upon binding to polymerized tubulin, coupled with the solvent studies on the free drugs, suggests that the 2- and N-benzoyl groups of paclitaxel bind in a hydrophobic pocket of tubulin but could participate in hydrogen bonding, and the 7- and 10-positions are in a more hydrophilic environment.

IT 160313-76-8
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (tubulin binding by fluorescent paclitaxel analogs)

RN 160313-76-8 HCAPLUS
 CN Benzenepropanoic acid, β -(benzoylamino)-3-(dimethylamino)- α -hydroxy-, 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2 α ,4 β ,4a β ,6 β ,9 α (α R*, β S*),11 α ,12 α ,12a α ,12b α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:120883 HCAPLUS

DOCUMENT NUMBER: 122:81681

TITLE: Synthesis and biology of substituted 3'-phenyl taxol analogs

AUTHOR(S): Georg, Gunda I.; Cheruvallath, Zacharia S.; Harriman, Geraldine C. B.; Hepperle, Michael; Park, Haeil; Himes, Richard H.

CORPORATE SOURCE: Department of Medicinal Chemistry, University of Kansas, Lawrence, KS, 66045, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (1994), 4(19), 2331-6

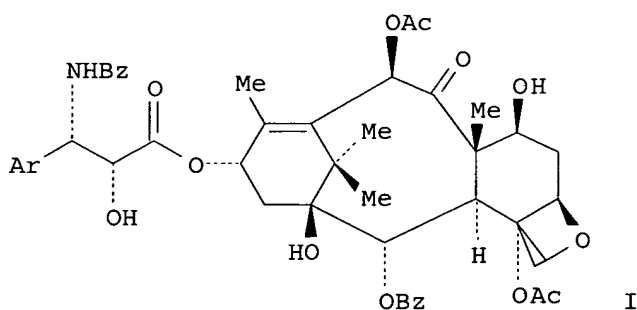
CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE: Journal

LANGUAGE: English

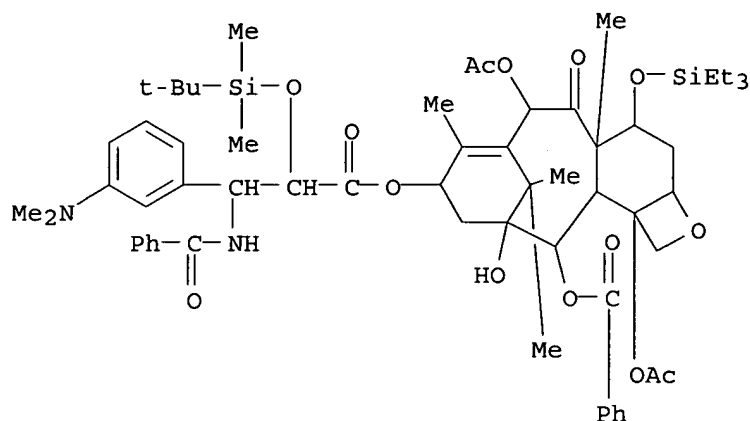
OTHER SOURCE(S): CASREACT 122:81681

GI



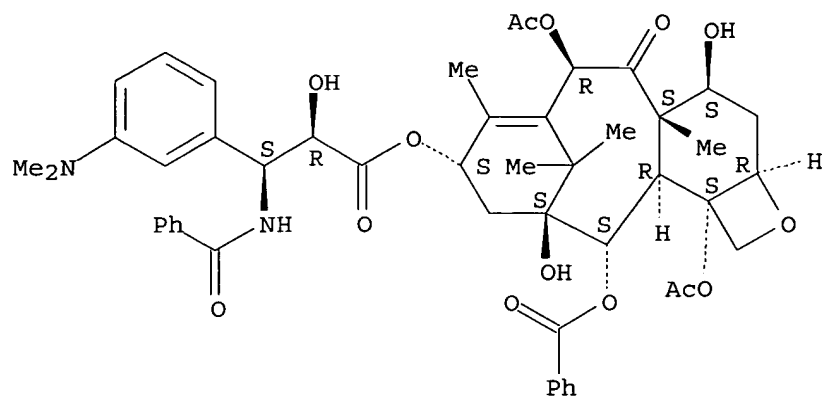
AB A series of substituted 3'-Ph taxol analogs I (Ar = 4-ClC₆H₄, 4-MeC₆H₄, 4-MeOC₆H₄, 2-Me₆H₄, etc.), directed by the Topliss Operational Scheme, were synthesized and evaluated for their biol. activity. The novel analogs were prepared from baccatin III and N-acyl β -lactams. Evaluation in the microtubule assembly assay and for cytotoxicity against B16 melanoma cells illustrated a modest influence of aromatic substitution on bioactivity.

IT 160314-00-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of taxol analogs, their tubulin assembly promotion and antitumor activity)
 RN 160314-00-1 HCAPLUS
 CN Benzenepropanoic acid, β -(benzoylamino)-3-(dimethylamino)- α -[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-, 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[(triethylsilyl)oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2a α ,4 β ,4a β ,6 β ,9 α (α R*, β S*),11 α ,12 α ,12a α ,12b α]]- (9CI) (CA INDEX NAME)



IT 160313-76-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation, tubulin assembly promotion, and antitumor activity)
 RN 160313-76-8 HCAPLUS
 CN Benzenepropanoic acid, β -(benzoylamino)-3-(dimethylamino)- α -hydroxy-, 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2a α ,4 β ,4a β ,6 β ,9 α (α R*, β S*),11 α ,12 α ,12a α ,12b α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:68704 HCAPLUS

DOCUMENT NUMBER: 96:68704

TITLE: Cephalosporin derivatives and pharmaceutical compositions containing them

INVENTOR(S): Wehrli, Hansuli; Kocsis, Karoly; Scartazzini, Riccardo

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 177 pp.

CODEN: EPXXDW

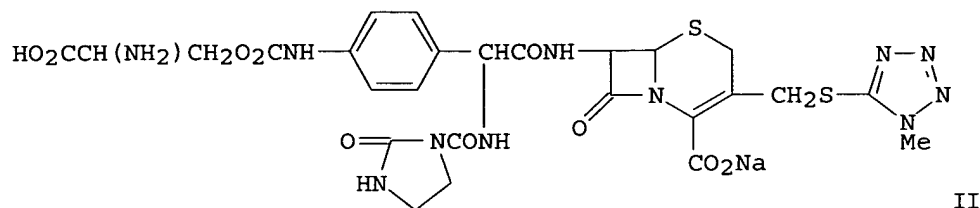
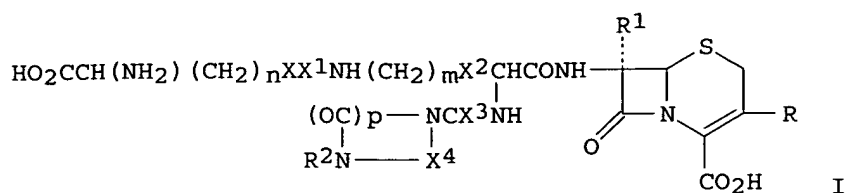
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 31794	A2	19810708	EP 1980-810386	19801215
EP 31794	A3	19820203		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4464366	A	19840807	US 1980-214155	19801208
ES 497849	A1	19811116	ES 1980-497849	19801217
DK 8005408	A	19810620	DK 1980-5408	19801218
AU 8065518	A1	19810625	AU 1980-65518	19801218
ZA 8007914	A	19820127	ZA 1980-7914	19801218
JP 56103186	A2	19810818	JP 1980-181821	19801219
PRIORITY APPLN. INFO.:			CH 1979-11283	A 19791219
GI				



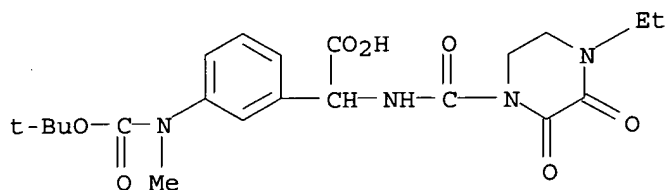
AB Cephalosporins I [$m = 0, 1$; $n = 1-4$; $p = 1, 2$; $X = O, S, NH, \text{bond}$; $X1 = CO, CONHSO_2, SO_2NHCO$; $X2 = (\text{un})\text{substituted phenylene, thienylene, furylene}$; $X3 = O, S$; $X4 = \text{alkylene}$; $R = H, \text{alkyl, alkoxy, halo, esterified or etherified } CH_2OH, CH_2SH, \text{ammoniummethyl}$; $R1 = H, OMe$; $R2 = H, (\text{un})\text{substituted alkyl, cycloalkyl, acyl}$] were prepared as bactericides (no data). Thus II was obtained from the aminocephem by a 2-step acylation and deblocking.

IT 79537-77-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acylation of aminocephems by)

RN 79537-77-2 HCAPLUS

CN Benzeneacetic acid, 3-[[[(1,1-dimethylethoxy)carbonyl]methylamino]- α -[[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino]- (9CI) (CA INDEX NAME)



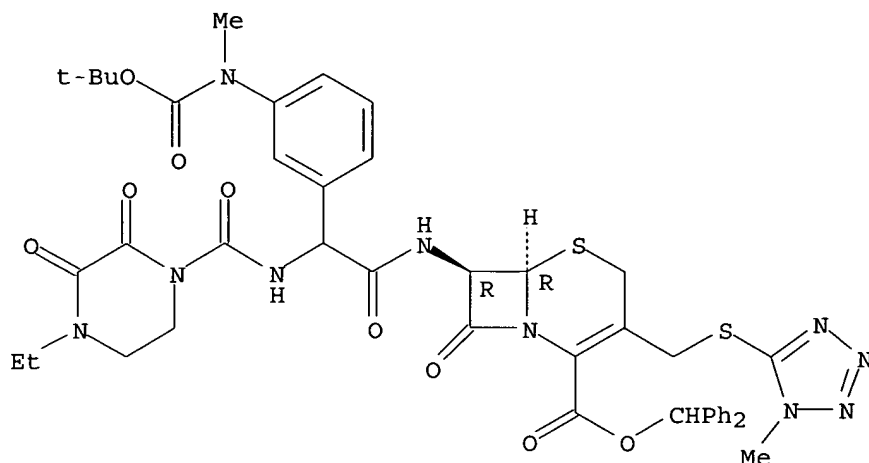
IT 79537-79-4P 79553-65-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deblocking of)

RN 79537-79-4 HCAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[[3-[[[(1,1-dimethylethoxy)carbonyl]methylamino]phenyl][[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino]acetyl]amino]-3-[[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, diphenylmethyl ester, [6R-(6 α ,7 β)]- (9CI) (CA INDEX NAME)

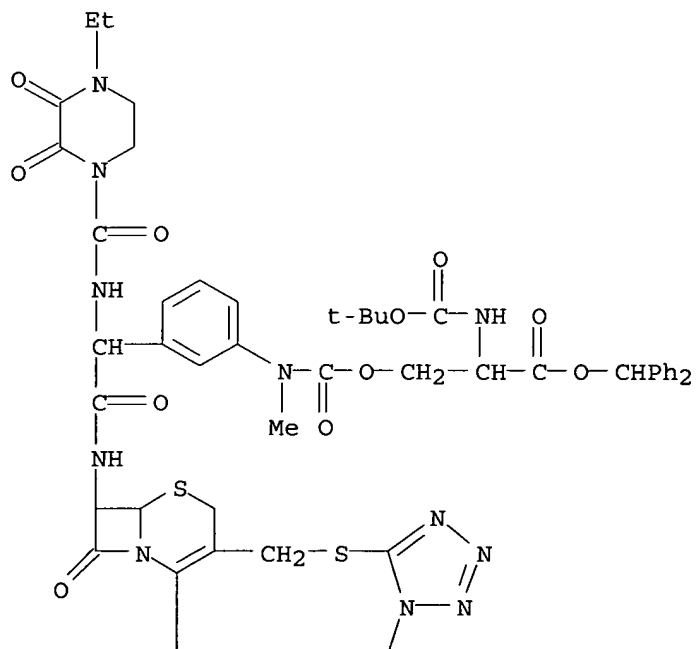
Absolute stereochemistry.

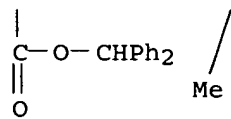


RN 79553-65-4 HCAPLUS

CN D-Serine, N-[(1,1-dimethylethoxy)carbonyl]-, diphenylmethyl ester, [3-[2-[2-[(diphenylmethoxy)carbonyl]-3-[[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl]amino]-1-[[[4-ethyl-2,3-dioxo-1-piperazinyl]carbonyl]amino]-2-oxoethyl]phenyl]methylcarbamate (ester), [6R-(6 α ,7 β)]- (9CI)
(CA INDEX NAME)

PAGE 1-A





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